

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. An apparatus for discharging load carriers transported on a conveying path and for transferring the load carriers to storage locations or connection conveyors, running transversely to the conveying path, said apparatus comprising:

a plurality of transporting belts which circulate in vertical planes, parallel to one another and transversely to the conveying path, about deflecting wheels, wherein said plurality of transport belts form a horizontal rest for the load carriers;

wherein at least two of the transporting belts project at least into that half of the conveying path which is directed toward the discharging apparatus, and at least one further transporting belt passes through the conveying path;

wherein said transporting belts run beneath the transporting planes of the conveying path and are fitted on the carrying side, in certain sections, with bearing strips;

said bearing strips are moved upward out of the transporting planes of the conveying path as the transporting belts circulate, said bearing strips gripping beneath a load carrier that is positioned above the transporting belts at at least three bearing points.

2. The apparatus as claimed in claim 1, wherein said plurality of transporting belts comprise three transporting belts, the transporting belt which passes through the conveying path being arranged between the two outer transporting belts, which project into the conveying path.

3. The apparatus as claimed in claim 1, wherein said plurality of transporting belts comprise three transporting belts, the transporting belts which pass through the conveying path being arranged on both sides of the transporting belt, which projects into the conveying path.

4. The apparatus as claimed in claim 3, wherein one deflecting wheel of each transporting belt can be driven.

5. The apparatus as claimed in claim 4, wherein the deflecting wheels which are arranged outside the conveying path and belong at least to the transporting belts, which project into the conveying path, are arranged on a common axle and are designed as synchronously drivable drive wheels.
6. The apparatus as claimed in claim 4, wherein the drive wheels of the transporting belts, which project into the conveying path, are fastened on a common shaft which can be driven via an add-on driving gear motor.
7. The apparatus as claimed in claim 6, wherein the non-driven deflecting wheels of the transporting belts, which project into the conveying path, are arranged on a common shaft.
8. The apparatus as claimed in claim 7 including a deflecting wheel of the transporting belt, which passes through the conveying path, that is arranged on the common shaft with the non-driven deflecting wheels of the transporting belts that project into the conveying path.
9. The apparatus as claimed in claim 8, wherein the transporting belts have the same circumferential lengths and are configured as toothed belts which, by way of their toothed side, engage in the driving deflecting wheels, which are provided with corresponding mating toothings.
10. The apparatus as claimed in claim 9, wherein said bearing strips are attached to the transporting belts by welding, vulcanization or screw connection.
11. The apparatus as claimed in claim 2, wherein one deflecting wheel of each transporting belt can be driven.
12. The apparatus as claimed in claim 11, wherein the deflecting wheels which are arranged outside the conveying path and belong at least to the transporting belts, which project into the conveying path, are arranged on a common axle and are designed as synchronously drivable drive wheels.

13. The apparatus as claimed in claim 11, wherein the drive wheels of the transporting belts, which project into the conveying path, are fastened on a common shaft which can be driven via an add-on driving gear motor.
14. The apparatus as claimed in claim 13, wherein the non-driven deflecting wheels of the transporting belts, which project into the conveying path, are arranged on a common shaft.
15. The apparatus as claimed in claim 14 including a deflecting wheel of the transporting belt, which passes through the conveying path, that is arranged on the common shaft with the non-driven deflecting wheels of the transporting belts that project into the conveying path.
16. The apparatus as claimed in claim 15, wherein the transporting belts have the same circumferential lengths and are configured as toothed belts which, by way of their toothed side, engage in the driving deflecting wheels, which are provided with corresponding mating toothings.
17. The apparatus as claimed in claim 16, wherein said bearing strips are attached to the transporting belts by welding, vulcanization or screw connection.
18. The apparatus as claimed in claim 1, wherein one deflecting wheel of each transporting belt can be driven.
19. The apparatus as claimed in claim 18, wherein the deflecting wheels which are arranged outside the conveying path and belong at least to the transporting belts, which project into the conveying path, are arranged on a common axle and are designed as synchronously drivable drive wheels.
20. The apparatus as claimed in claim 18, wherein the drive wheels of the transporting belts, which project into the conveying path, are fastened on a common shaft which can be driven via an add-on driving gear motor.

21. The apparatus as claimed in claim 20, wherein the non-driven deflecting wheels of the transporting belts, which project into the conveying path, are arranged on a common shaft.
22. The apparatus as claimed in claim 21 including a deflecting wheel of the transporting belt, which passes through the conveying path, that is arranged on the common shaft with the non-driven deflecting wheels of the transporting belts that project into the conveying path.
23. The apparatus as claimed in claim 22, wherein the transporting belts have the same circumferential lengths and are configured as toothed belts which, by way of their toothed side, engage in the driving deflecting wheels, which are provided with corresponding mating toothings.
24. The apparatus as claimed in claim 23, wherein said bearing strips are attached to the transporting belts by welding, vulcanization or screw connection.
25. The apparatus as claimed in claim 1, wherein the deflecting wheels which are arranged outside the conveying path and belong at least to the transporting belts, which project into the conveying path, are arranged on a common axle and are designed as synchronously drivable drive wheels.
26. The apparatus as claimed in claim 1, wherein the drive wheels of the transporting belts, which project into the conveying path, are fastened on a common shaft which can be driven via an add-on driving gear motor.
27. The apparatus as claimed in claim 1, wherein the non-driven deflecting wheels of the transporting belts, which project into the conveying path, are arranged on a common shaft.
28. The apparatus as claimed in claim 27 including a deflecting wheel of the transporting belt, which passes through the conveying path, that is arranged on the common shaft with the non-driven deflecting wheels of the transporting belts that project into the conveying path.

29. The apparatus as claimed in claim 1, wherein the transporting belts have the same circumferential lengths and are configured as toothed belts which, by way of their toothed side, engage in the driving deflecting wheels, which are provided with corresponding mating toothing.

30. The apparatus as claimed in claim 1, wherein said bearing strips are attached to the transporting belts by welding, vulcanization or screw connection.